CLAIMS

1. (Currently Amended) A method for reducing image noise in a scanned image, comprising:

decreasing a color level of a color element of a pixel of the scanned image by reducing a number of bits of a full color level of the color element one or more pixels in the scanned image to form a reduced color level image;

composing a pattern comprising the color element having less color level than the full color level; and

recombining the full color level of the color element the one or more pixels in the seanned image by combining the reduced color level image with the pattern.

- 2. (Previously Presented) The method of claim 1, wherein the reduced color level image and the pattern are combined using a bit-enhanced method.
- 3. (Currently Amended) The method of claim 1, wherein combining the reduced color level image with the pattern restores the <u>pixel</u> one or more <u>pixels</u> to include a same number of bits of the color element as before the <u>full</u> color level was decreased.
- 4. (Previously Presented) The method of claim 1, wherein the pattern comprises a halftone pattern.
- 5. (Previously Presented) The method of claim 1, wherein the number of bits reduced from the full color level is set to an image noise level.
- 6. (Currently Amended) A method for reducing noise in an image, comprising: reducing a gray scale an image level of one or more pixels of the image by reducing subtracting a number of bits of gray scale image data from each of the one or more pixels; and

restoring the gray scale image level of the one or more pixels using a halftone pattern comprising a matrix, wherein a number of rows and a number of columns of the matrix correspond to the number of bits of gray scale image data subtracted from the one or more pixels.

- 7. (Previously Presented) The method of claim 1, wherein the color level of the pattern depends on the number of bits reduced from the full color level.
- 8. (Currently Amended) A method for reducing noise in an image, comprising: reducing a full image level of a color element of a pixel of one or more pixels in the image by decreasing a number of bits of the color element from according to the image noise; composing a halftone pattern comprising with a reduced image level of the color element corresponding to the decreased number of bits; and

recombining an image level of the color element of the pixel one or more pixels in the image using the halftone pattern.

- 9. (Currently Amended) The method of claim 8, wherein a number of bits of the color element in the recombined image level is the same as a number of bits of the color element in the full image level.
- 10. (Previously Presented) The method of claim 8, wherein the halftone pattern comprises a matrix having a number of rows equal to the decreased number of bits.
- 11. (Previously Presented) The method of claim 10, wherein the matrix further comprises a number of columns equal to the decreased number of bits.
- 12. (Previously Presented) The method of claim 8 further comprising displaying the image including the recombined image level on a computer monitor.
- 13. (Currently Amended) The method of claim 8, further comprising filling out missing codes of the <u>pixel</u> one or more pixels of the image using a bit-enhanced method.

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14 - 17. Cancelled

18. (Currently Amended) An apparatus for reducing noise in an image, comprising: means for reducing a full image level of a color element of one or more pixels in the image by decreasing a number of bits of the color element from the one or more pixels, wherein the number of bits corresponds approximately according to the image noise;

means for composing a halftone pattern comprising with a reduced image level of the color element, wherein the reduced image level corresponds corresponding to the decreased number of bits; and

means for recombining an image level of the one or more pixels in the image using the halftone pattern.

- 19. (Currently Amended) The apparatus of claim 18, wherein a number of bits of the color element in the recombined image level is the same as a number of bits of the color element in the full image level.
- 20. (Previously Presented) The apparatus of claim 18, wherein the halftone pattern comprises a matrix having a number of rows and columns equal to the decreased number of bits.
- 21. (Currently Amended) The apparatus of claim 18, wherein recombining the image level restores the one or more pixels to include a same number of bits of the color element as before the full image level was reduced.
- 22. (Currently Amended) The apparatus of claim 18, wherein the number of bits decreased from the full image level is set to approximate an image noise level.
- 23. (Currently Amended) The apparatus of claim 18, wherein the reduced image level of the pattern corresponds with depends on the number of bits reduced from the full image level.
- 24. (Previously Presented) The apparatus of claim 18, wherein one or more of the full image level, the reduced image level, and the image level comprise a color level.

- 25. (Previously Presented) The apparatus of claim 18, wherein one or more of the full image level, the reduced image level, and the image level comprise a gray level.
- 26. (New) The method of claim 1, wherein the scanned image comprises three color elements, and wherein the pixel comprises at least one of the three color elements.
- 27. (New) The method of claim 26, wherein the three color elements comprise a red color element, a blue color element, and a green color element.
- 28. (New) The method of claim 9, wherein the full image level of the color element and the recombined image level of the color element comprises a gray level.
- 29. (New) The method of claim 28, wherein the full image level is reduced by decreasing a number of bits of the gray level.